

LISTING OF THE CLAIMS

1 (Original): In a magnetic recording head comprised of (a) a substrate of an oxide, nitride or carbide of aluminum, zirconium, silicon or titanium and having (b) an overcoat comprising a film composed primarily of carbon in the essentially amorphous form and having pinholes therein exposing the substrate, wherein the improvement comprises treating the magnetic recording head with a corrosion-protective composition so as to fill the pinholes of the overcoat, the composition containing a corrosion-protective agent comprised of a metal salt of a fluorinated polyether having at least one carboxylic acid group.

2 (Original): The magnetic recording head of claim 1, wherein the fluorinated polyether is a perfluorinated polyether.

3 (Original): The magnetic recording head of claim 2, wherein the perfluorinated polyether has one carboxylic acid end group.

4 (Original): The magnetic recording head of claim 3, wherein the perfluorinated polyether has two carboxylic acid groups.

5 (Original): The magnetic recording head of claim 2, wherein the perfluorinated polyether is comprised of monomer units having the structure -CF₂-O-, -CF₂-CF₂-O-, -CF(CF₃)-O-, -CF(CF₃)-CF₂-O-, or a combination thereof.

6 (Original): The magnetic recording head of claim 1, wherein the fluorinated polyether is a linear polymer.

7 (Original): The magnetic recording head of claim 1, wherein the metal salt is an alkali metal salt.

8 (Original): The magnetic recording head of claim 1, wherein the fluorinated polyether has a number average molecular weight in the range of approximately 500 to 10,000.

9 (Original): The magnetic recording head of claim 8, wherein the fluorinated polyether has a number average molecular weight in the range of approximately 1000 to 5000.

10 (Original): The magnetic recording head of claim 9, wherein the fluorinated polyether has a number average molecular weight in the range of approximately 2500 to 3500.

11 (Original): The magnetic recording head of claim 1, wherein the improvement further comprises coating the carbon overcoat with a lubricating film of a perfluoropolyether prior to deposition of the corrosion-protective composition.